Figure 1

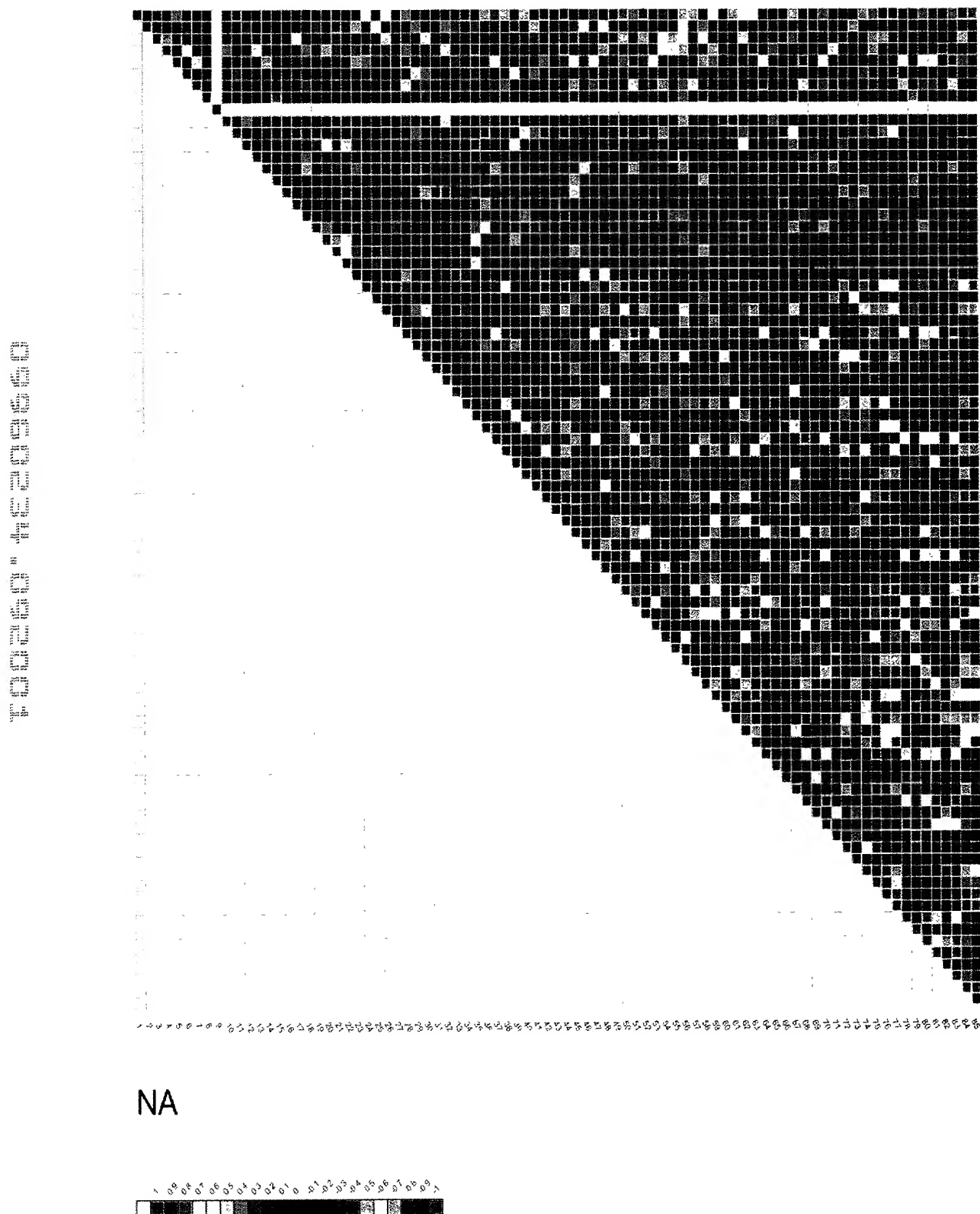*Figure 2: Colorization of a random correlation matrix for BN*

NA

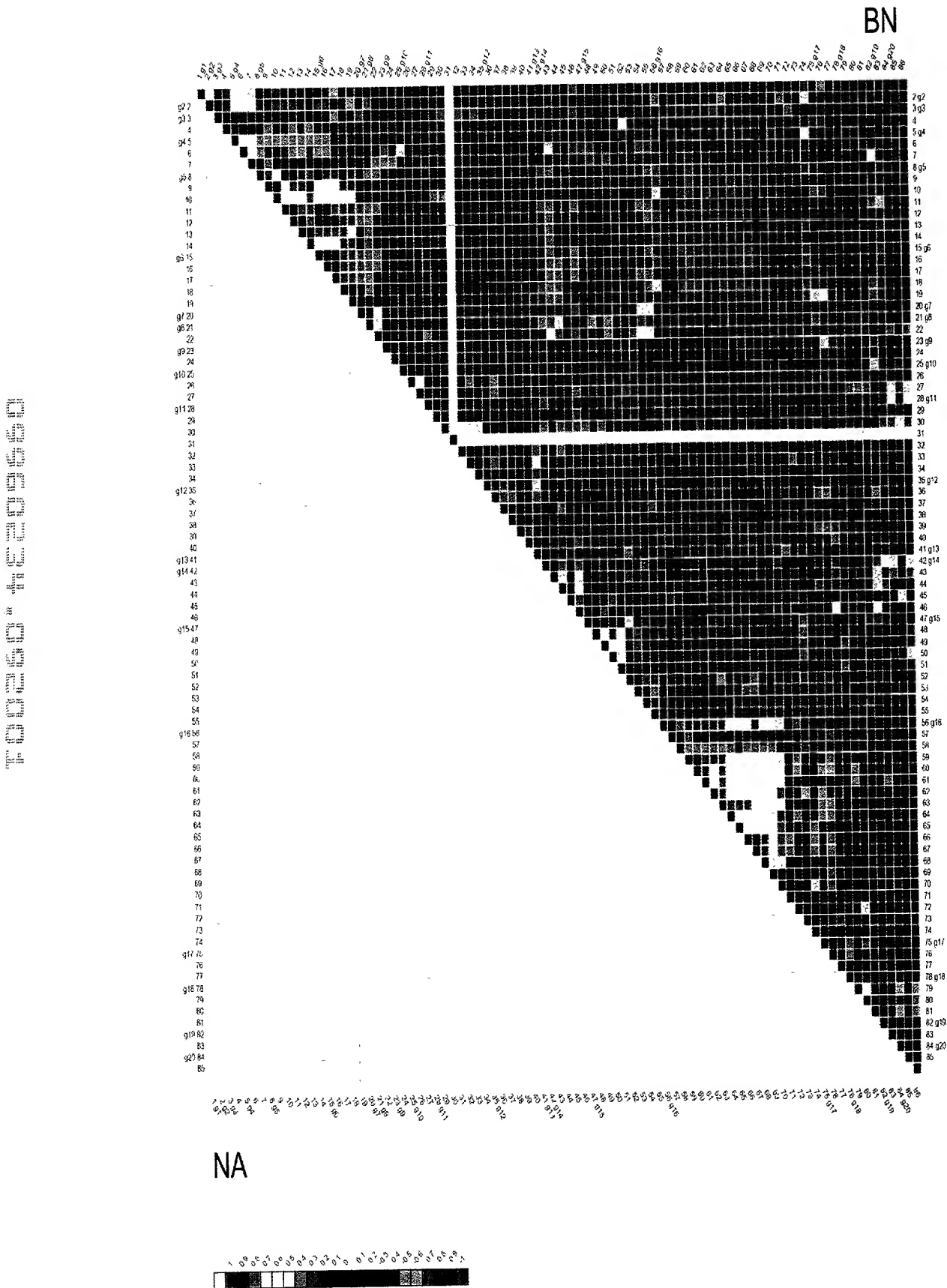# Figure 3: Functionally clustered physiological profile

Figure 4: Composite matrices of two physiological profiles generated by functional clustering and algorithm-based clustering
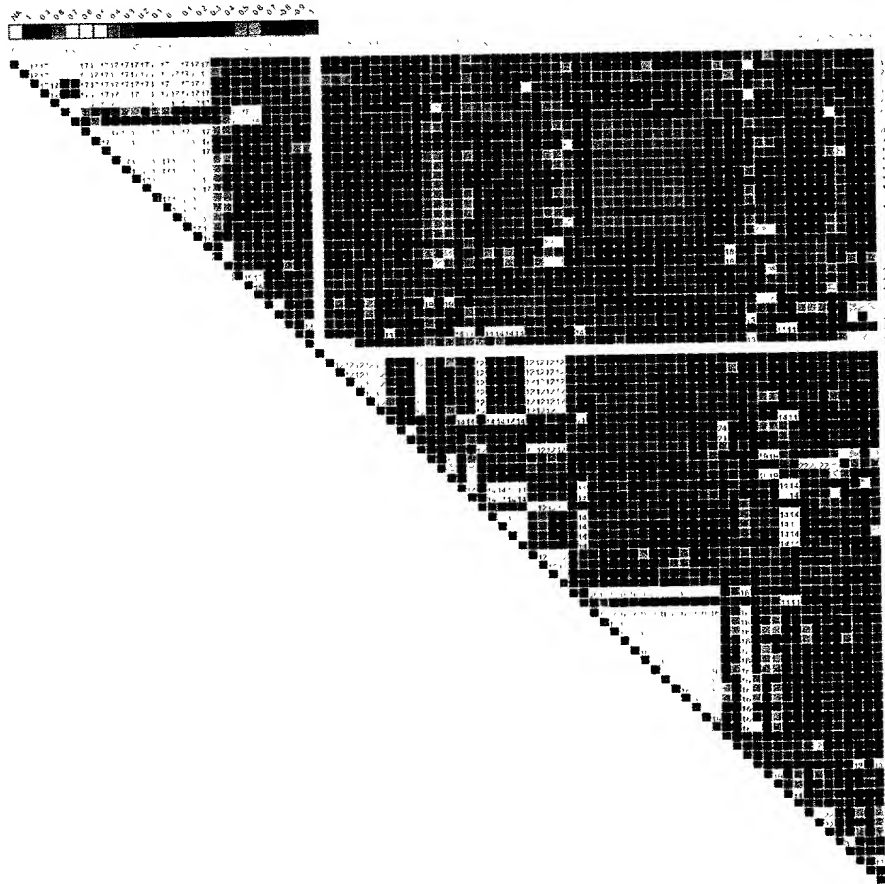
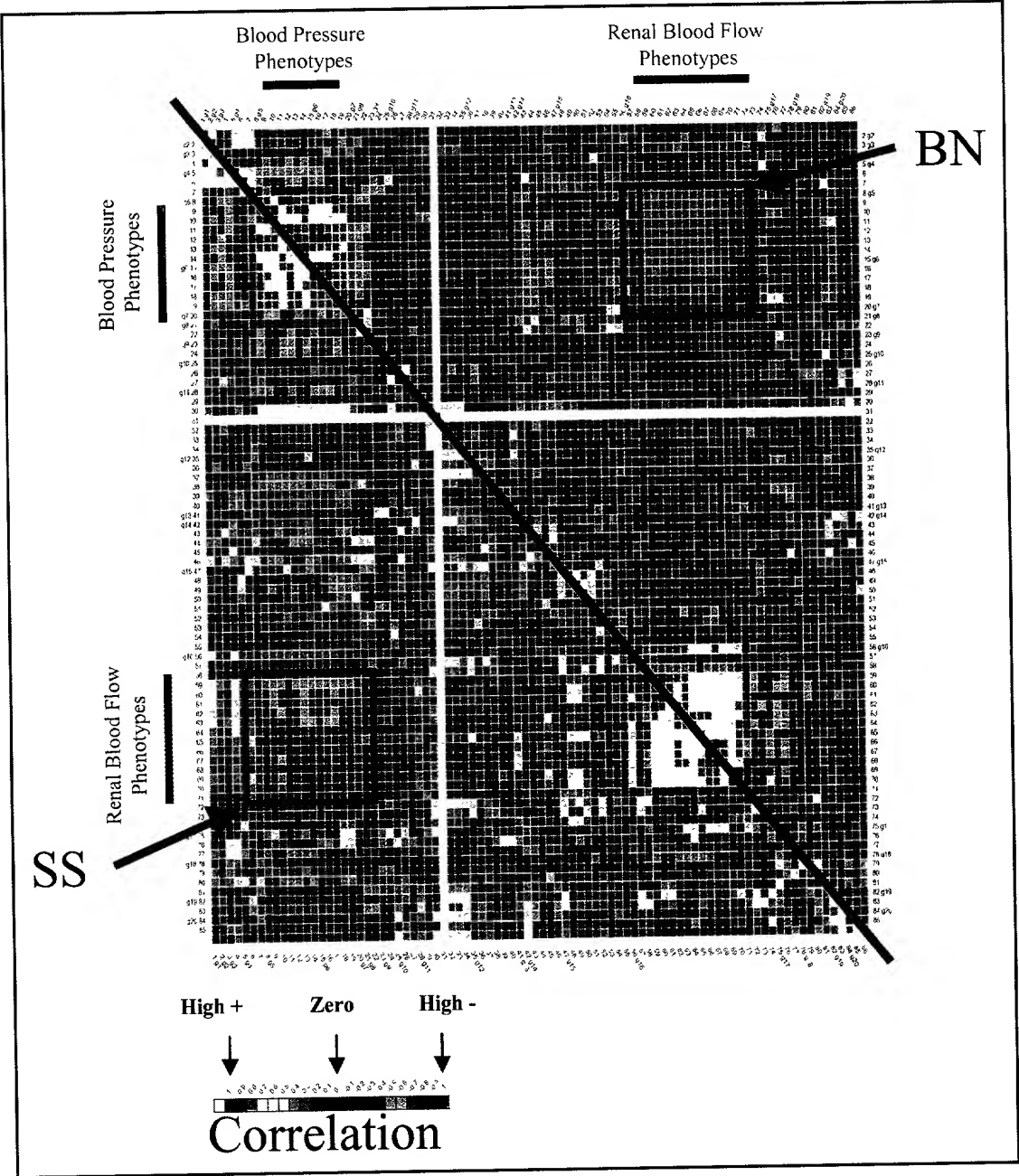**Figure 5: Physiological Profiling of autoregulation of blood flow in the SS and BN rat.**

Figure 6: Composite profiles of parental BN and F2 progeny rats generated by
overlaying functionally clustered correlation matrices with algorithm clustered
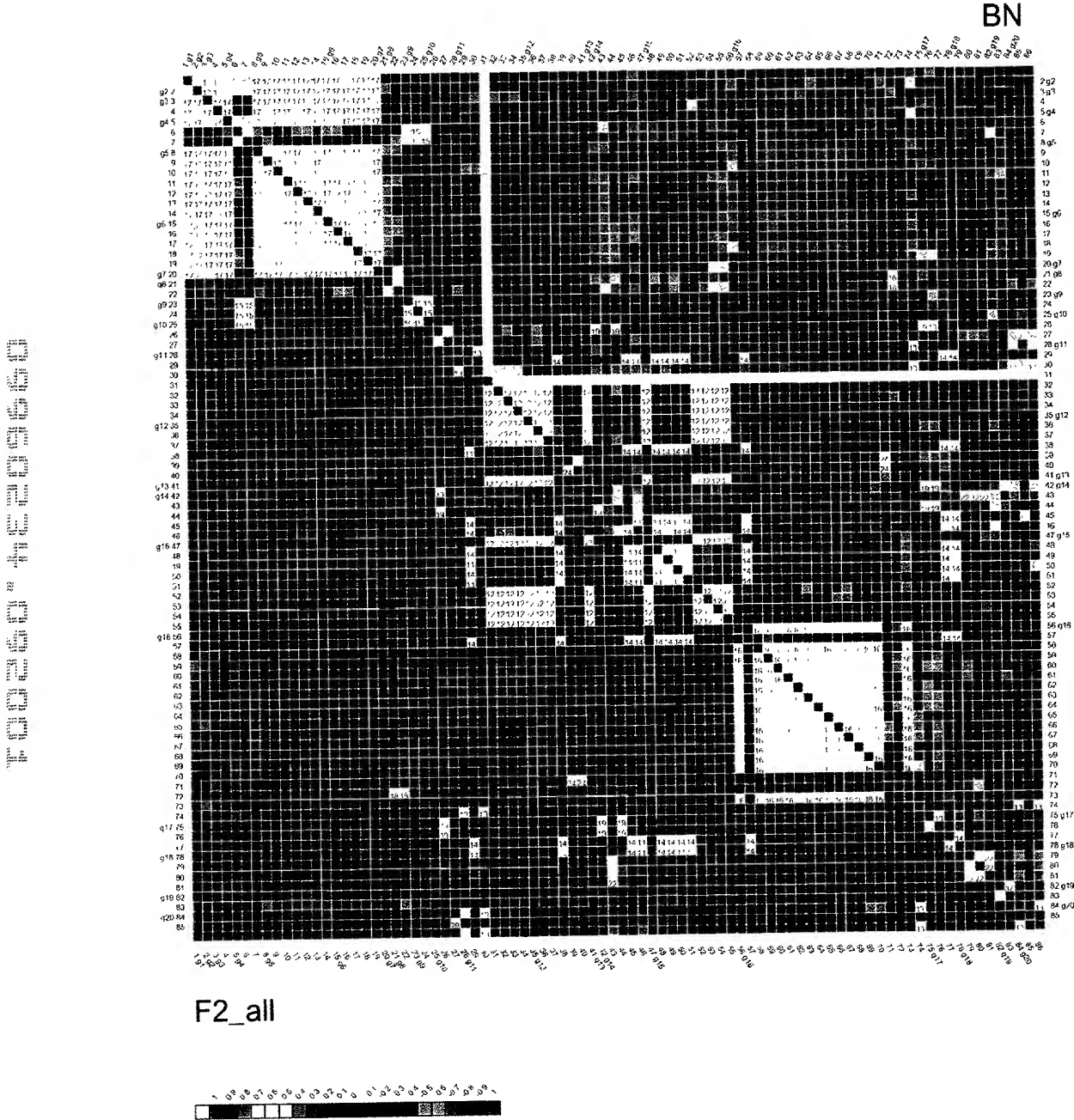correlation matrices

Figure 7A: Physiological profiles of the entire F2 population and the F2 progeny population that fall in the left 10 % of a distribution after a salt challenge
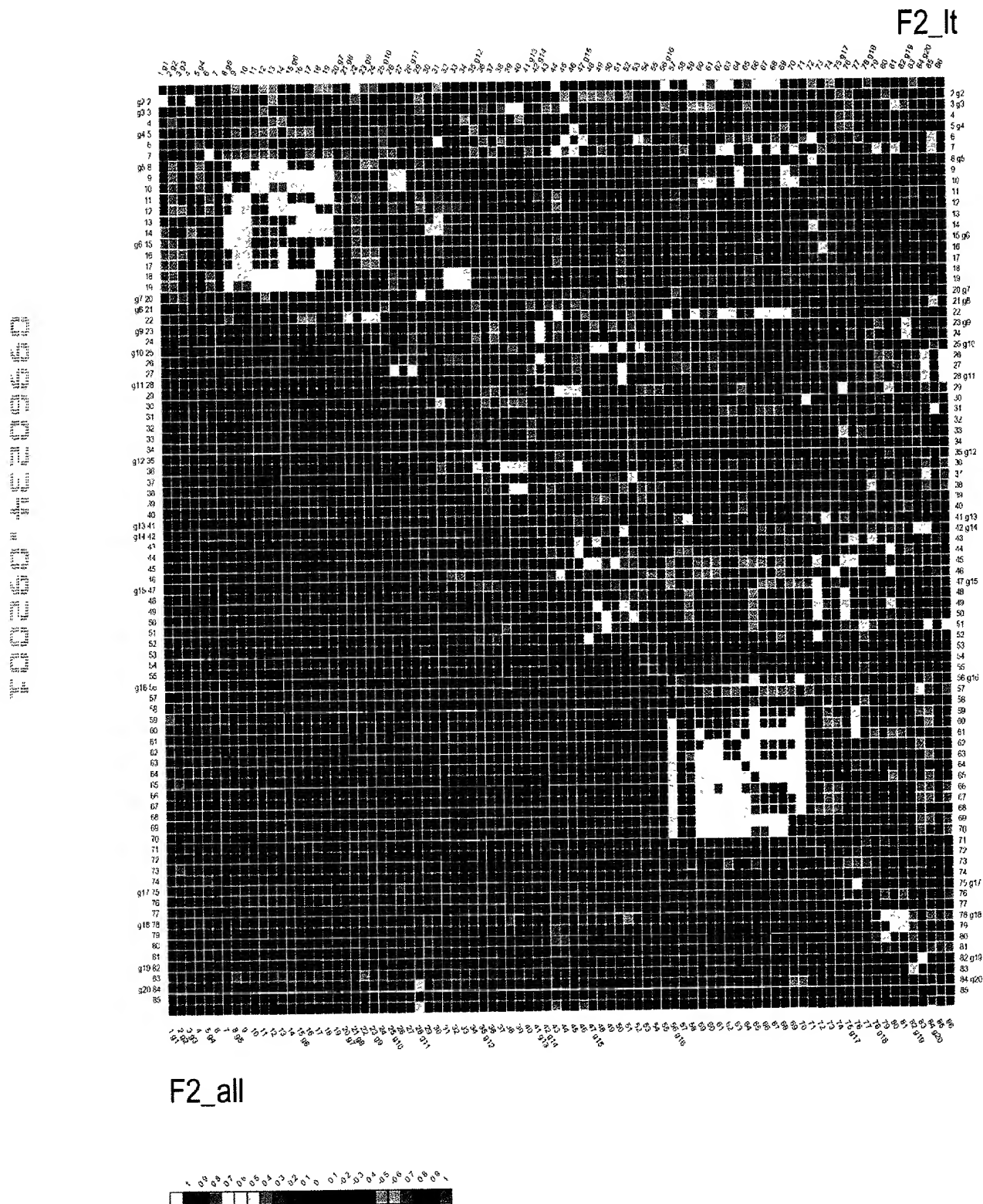

F2_lt

F2_all

Figure 7B: Physiological profiles of the entire F2 population and the F2 progeny population that fall in the right 10 % of a distribution after a salt challenge
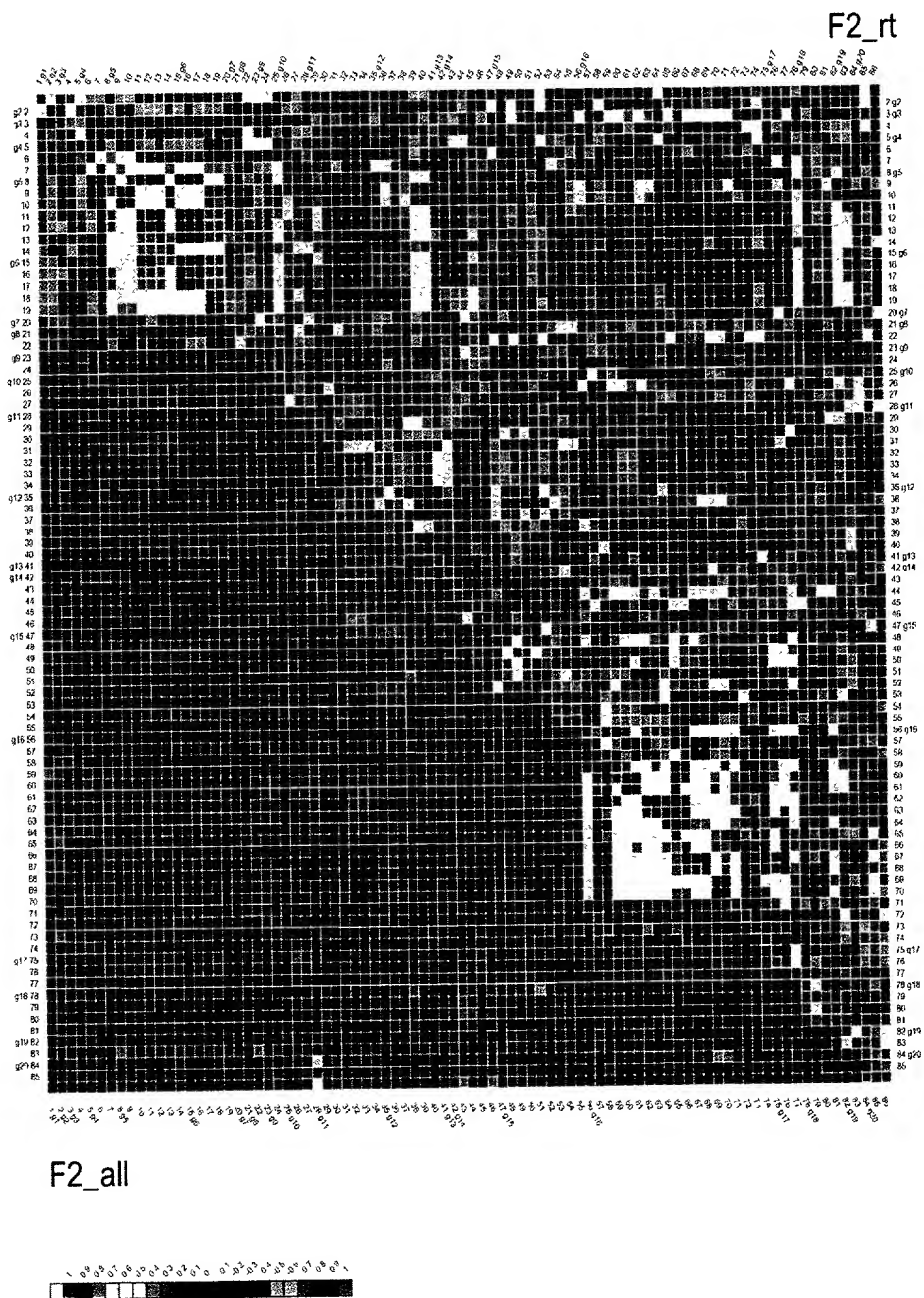
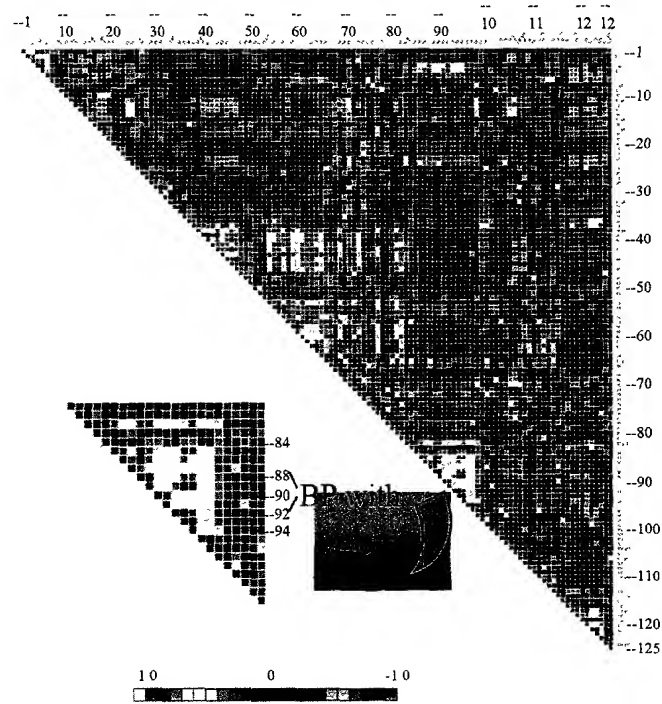F2 male genotype homozygote SS/SS at D10Mgh14 marker on chr 10

F2 male genotype homozygote BN/BN at D10Mgh14 marker on chr 10
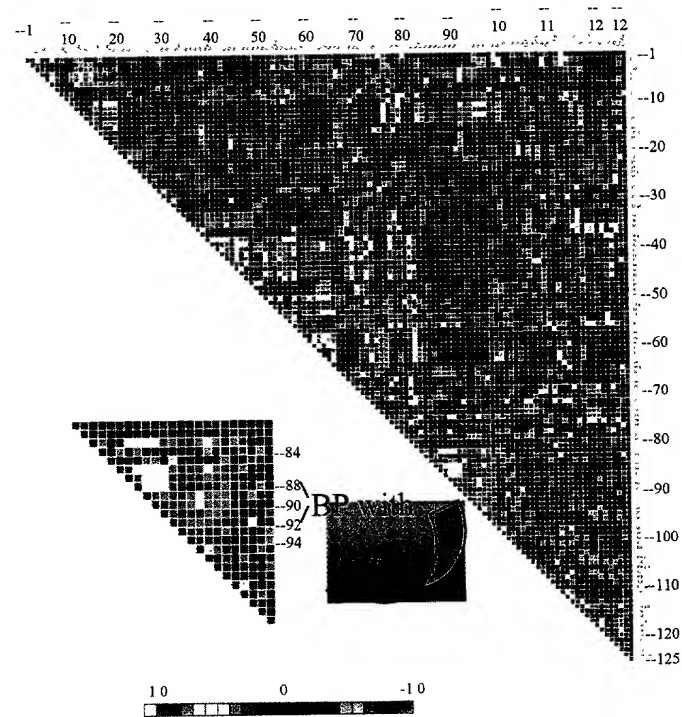
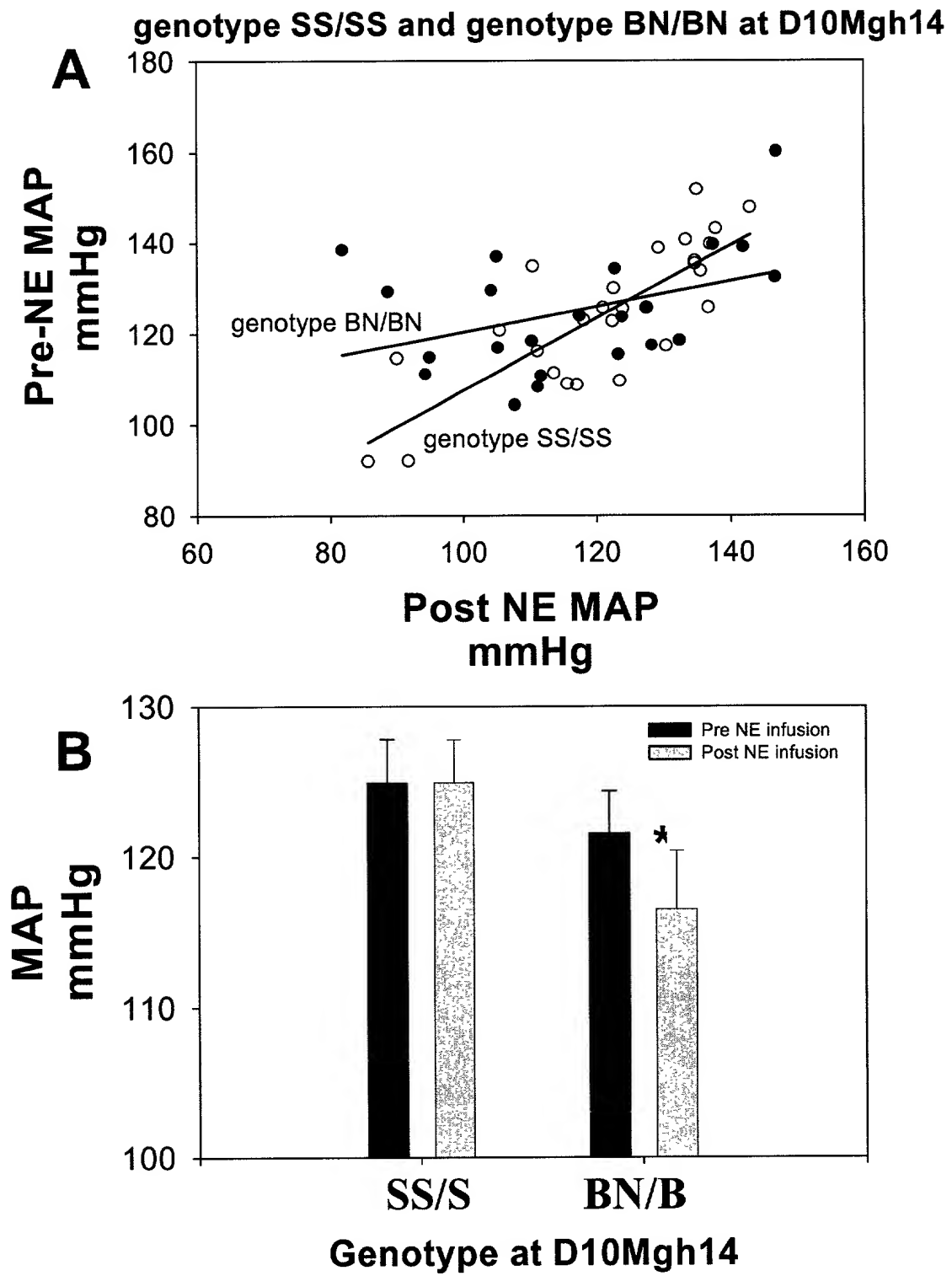**genotype SS/SS and genotype BN/BN at D10Mgh14**

Figure 10: physiological profiles of French Canadian and African American hypertensive patients